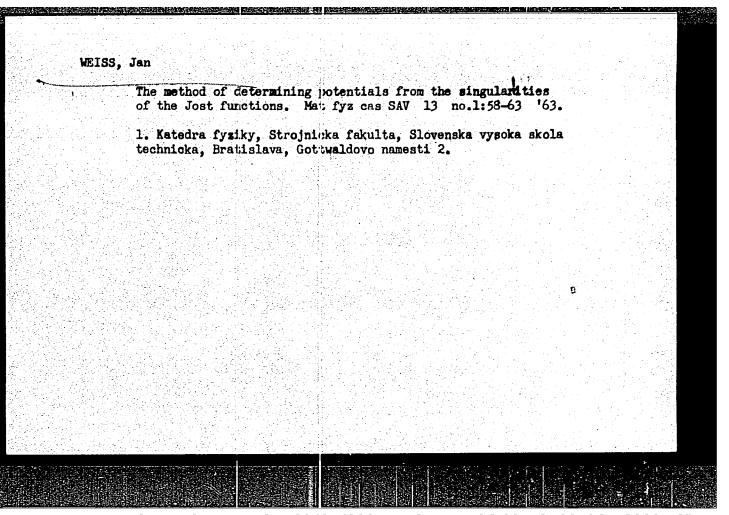
POKORNY, Miloslav; WEISS, Jaroslav; DVORAK, Jaroslav; DLABAC, Mikulas; PESL, Vaclav; PELISEK, Josef

Fourteenth Congress of the Czechoslovak Society of Minerelogy and Geology in Brno, 1963. Cas min geol 9 no.2:251-256 '64.

11175-66 EMP(c)/EMP(x)/T/EMP(v)/EMP(1) IJP(e) ACC NR: AP6030186 SOURCE CODE: CZ/0088/65/000/005/0410/0420 AUTHOR: Weiss, Jaroslav (Engineer; Candidate of sciences) ORG: Institute of Information Theory and Automation, CSAV, Prague (Ustav teorie informace a automatizace CSAV) TITIE: Compensation of the disturbance by means of the model in a discrete control system This paper was presented at the International Conference on Multiparameters and Discrete Control Systems held in Prague from 9 to 14 June 1965. SOURCE: Kybernetika, no. 5, 1965, 410-420 TOPIC TAGS: transfer function, control system stability ABSTRACT: A feedback control system' is described which compensates by means of a plant model the disturbances that cannot 'be measured. If some command variable is introduced at the input of the control system, then the output signal of the plant is equal to the output signal of the plant model. If the control signal is subject to some disturbance signal, then the plant output and the model output are not equal, and the difference is used to compensate the influence of the disturbing signal. The system transfer functions in modified z-transform are derived, and it was found that the control system can have the required characteristics when compensating the disturbance as well as when following the command signal. The transfer functions are analyzod from the viewpoint of sensitivity, and stability conditions are set for small variations. The functioning of the control system was tested by analog computation. 3 figures, 39 formulas, and 1 table. Based on author's Eng. abst. Orig. art. has: /JPRS: 34,1627 SUB CODE; 13 /ns SUBM DATE: 24Jan65 / OTH REF: 002 1024

L 34698-66 EWT(d) ACC NR: AP6025880 SOURCE CODE: CZ/0080/66/000/002/0040/0043 AUTHOR: Weiss, Jaroslav (Engineer; Candidate of sciences) ORG: Institute of Information Theory and Automation, CSAV (Ustav teorie informace a automatizace CSAV) TITIE: Contribution to the numerical solution of algebraic equations of higher degrees SOURCE: Automatizace, no. 2, 1966, 40-13 TOPIC TAGS: algebraic equation, numeric solution, iteration, polynomial ABSTRACT: The article describes a method of determining the convergence of iteration in division of a polynomial by a quadratic trinomial if the approximate position of the complexly associated points under consideration are known (or the coefficients of the trinomial corresponding approximately to that complex pair). Orig. art. has: 31 formulas. [JPRS: 35,386] SUB CODE: 12 / SUBM DATE: none / (TH REF: 003 Cord 1/1 UDC: 518.6



L 09880-67 EMP(c)/EMP(f) WM/JWD

ACC NR: AP6032605

SOURCE CODE: PO/0032/66/013/003/0415/0430

AUTHOR: Weiss, Jerzy (Warsaw)

75

ORG: none

TITLE: Use of digital computers to determine time dependency of pressure in solid fuel rocket engines $_{\wedge}\gamma_{\rangle}$

SOURCE: Archiwum budowy maszyn, v. 13, no. 3, 1966, 415-430

TOPIC TAGS: rocket engine, ballistics, digital computer, solid fuel rocket engine, rocket fuel system, rocket engine pressure/Ural-2 digital computer, Elliott-803 digital computer

ABSTRACT: The method for determining combustion pressures in solid fuel rocket engines was based on a differential equation of pressures in the combustion chamber with rocket ballistic properties and design parameters. Urals-2 and Elliott-803 digital computers were used to calculate the equation for application over a wide range of fuel combustion values. The method substantially facilitates ballistic design for solid fuel rocket engines and applied to a number of solid fuel rocket engines operated in Poland. Orig. art. has: 1 figure, 1 table, and 39 formulas.

[Based on author's abstract]

Card 1/14 SUB CODE: 09, 19, 21/SUBM DATE 00May65/ORIG REF: 004/OTH REF: 001

ACC NR. AP6029402

SOURCE CODE: PO/0102/66/000/005/0001/0005

AUTHOR: Szczecinski, Stefan (Lieutenant colonel, Doctor, Engineer); Weiss, Jerzy (Colonel, Doctor, Engineer)

ORG: none

TITIE: Modern propellants for rocket engines

SOURCE: Technika letnicza i astronautyczna, no. 5, 1966, 1-5

TOPIC TAGS: rocket engine oxidizer, rocket engine propellant, solid propellant, liquid propellant

ABSTRACT: The paper reviews the desirable characteristics of solid and liquid rocket propellants. Independently of the energy requirements, the search for new propellants is directed toward fulfilling certain definite operational requirements such as chemical stability, and in solid propellants mechanical stability, under various climatic and atmospheric conditions, starting readiness being preserved. In this respect, the the maximum capabilities have almost been reached in the field of liquid propellants, and the future undoubtedly belongs to solid propellants. Various additives designed to decrease the combustion rate are already being used, as in the American engine UTC P-1 of the "Titan" 3C rocket. Powdered metals (such as aluminum in the engine of the "Polaris" rocket) are added to increase the specific thrust. New liquid propellants are generally based on liquid oxygen (despite its physical instability at normal

Card 1/2

KNAPOWSKI, Jan; ADAM, Wlodzimierz; ARASIMOWICZ, Czeslaw; WEISS, Krystyna...

Intestinal excretion of aric acid in dogs. Acta med. pol. 4 no.2:201-207 163.

1. Department of General and Experimental Pathology, Medical Academy, Poznan Director: Prof. Dr A. Horst IInd Clinic of Internal Diseases, Medical Academy, Poznan Director: Prof. Dr J. Roguski.

(INTESTINES) (URIC ACID)

Clinical and therapeutic ampects of intra- and post-infection acute thyroiditis. Med. int., Bucur. 9 no.12:1814-1821 Dec 57.

1. Clinica a II-a medicala, Cluj (prof. I. Goia)

(THYROIDITIS)

Acute, post-infectious, diag. & clinc. aspects)

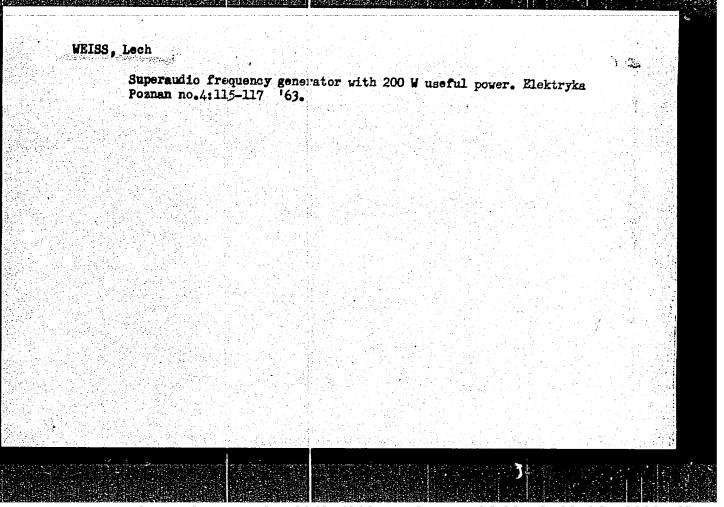
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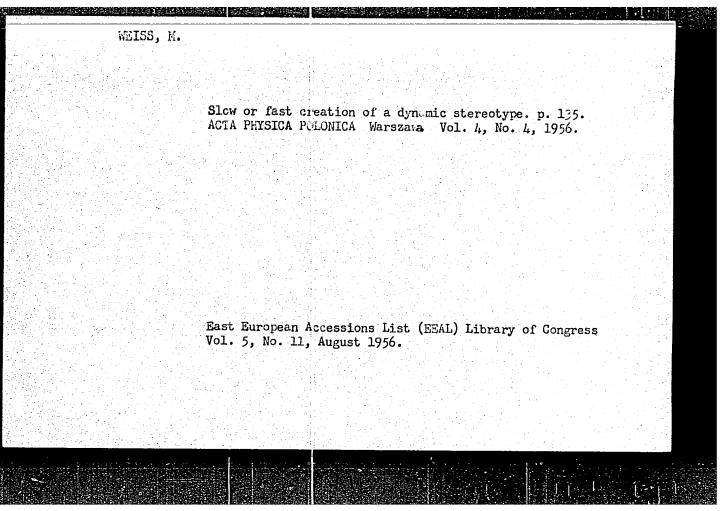
STURZA, Marius; MACELARIU, A.; WEISS, L.; PREDA, Ch.; BURIA, A.; CATANA, I.; MATES, E. Balmeotherapy and physical therapy of brachialgia and intercostal neuralgia caused by spondylosis at the level of the cervico-dorsal spine. Probl. reumat.. Bucur. no.5:55-58 1958. 1. Instutul de balneologie si fizioterapie, Bucuresti. (SPONDYLOSIS, complications brachialgia & intercostal neuralgia in cervico-dorsal spondylosis, balneol. & physic ther.) (ARK. dis. pain caused by cervico-dorsal spondylosis, balneol. & phys. ther.) (NEURALGIA intercostal, caused by cervico-dorsal spondylosis, balmeol. & phys. ther.) (NERVES, THORACIC: dis. intercostal neuralgia, caused by cervico-dorsal spondylosis, balneol. & physic ther.) (BALNEOLOGY, in various dis. brachialgia & intercostal neuralgia caused by cervico-dorsal spondylosis) (PHISICAL THERAPY, in various dis. same)

WEISS, Lech, mgr. inz.

Radioisotopic methods of thickness measurement. Elektryka Poznan no. 2:149-163 '61.

1. Katedra Fizyki, Politechnika, Poznan





VEISS, Milan, sanitatski potpukovnik d-r; FORTTIC, Vinko, sanitatski potpukovnik d-r

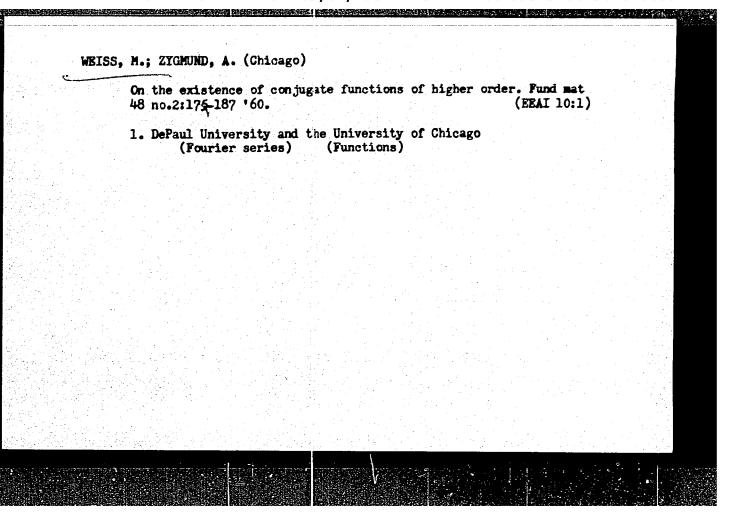
Venous pseudo-tumorat the nack and its differential diagnosis.

Voj. san. pregl., Beogr. 17 no. 3:257-260 Mr '60.

1. Oblasna vojna bolnika u Zagrebu, Odejeljenje sa uho, grlo i nos.

(JUGULAR YELW dia.)

(ANEURYSM diag.)

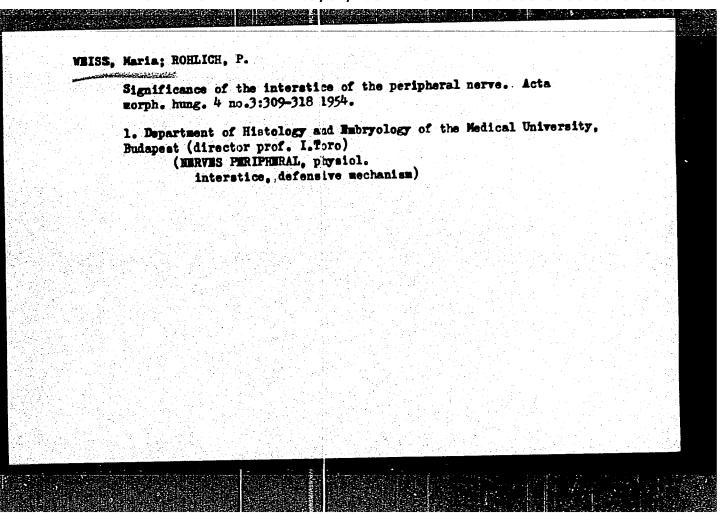


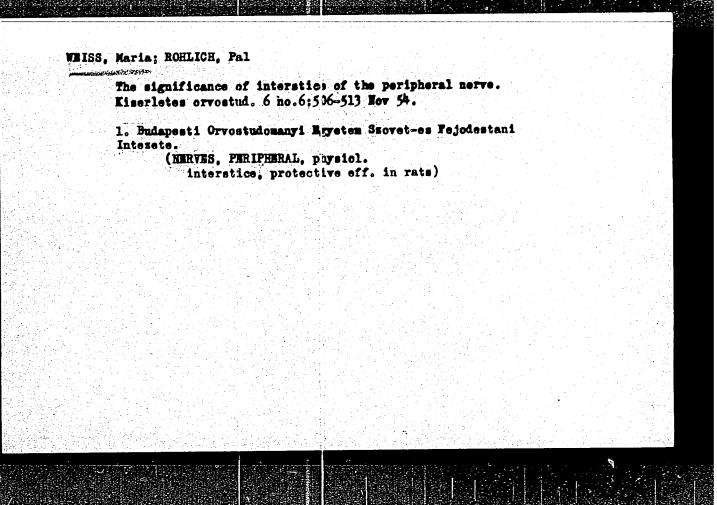
WEISS, Marian The Second Congress on Rehabilitation, Dresden, April 11-15, 1962. Nauka polska 10 no.6:151-154 N-D '62. 1, Klinika Rehabilitacji, Akademia Medyczna Warszawa; siedziba kliniki: Konstancin pcd Warszawa.

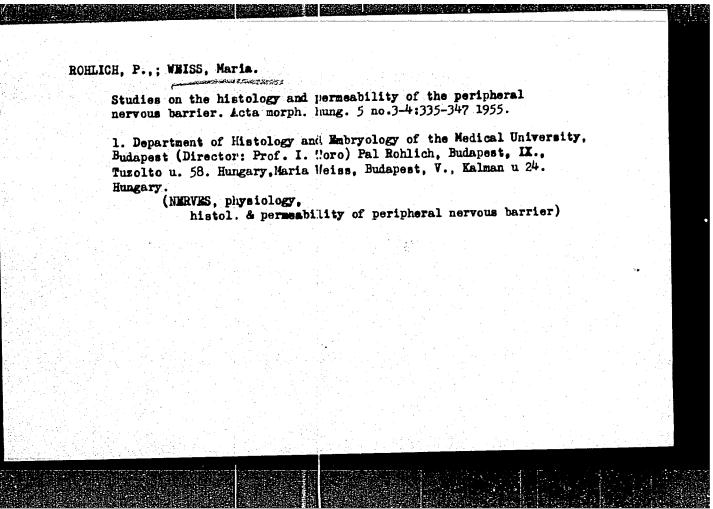
WEISS, Marian

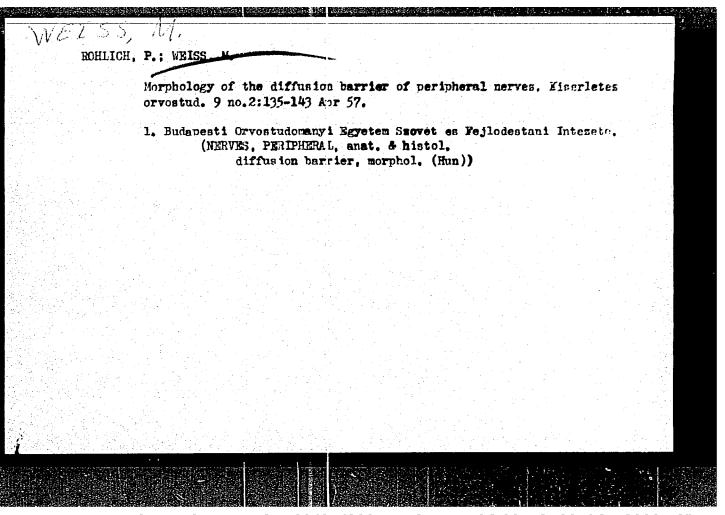
Principles for the development of rehabilitation in Warsaw. Chir. narzad.ruchu ortcp. pol. 28 no.5:499-502 '63.

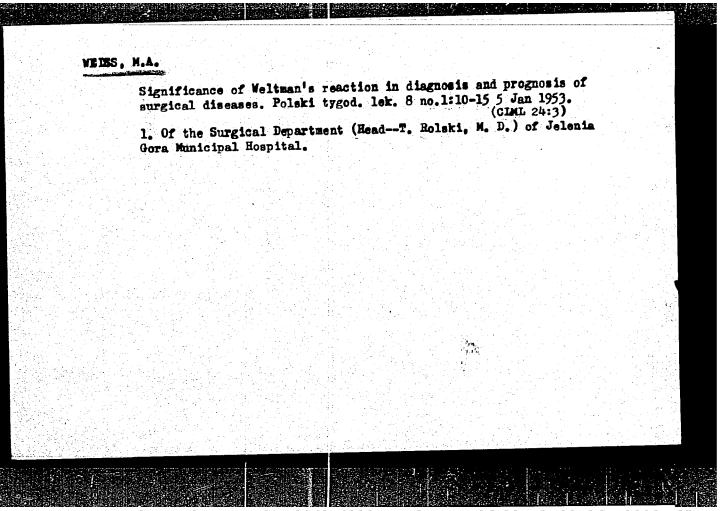
1. Ze Stolecznego Centrum Rehabilitacji i Katedry Rehabilitacji AM w Konstancinie. Kierownik: doc.dr. M.Weiss.

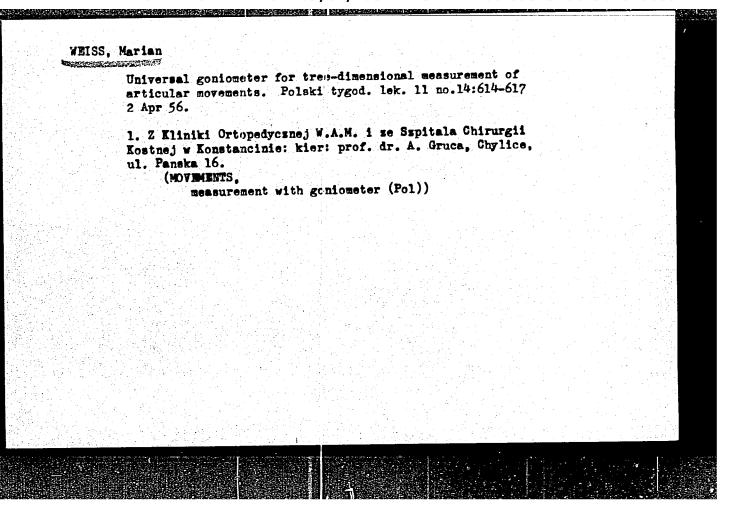


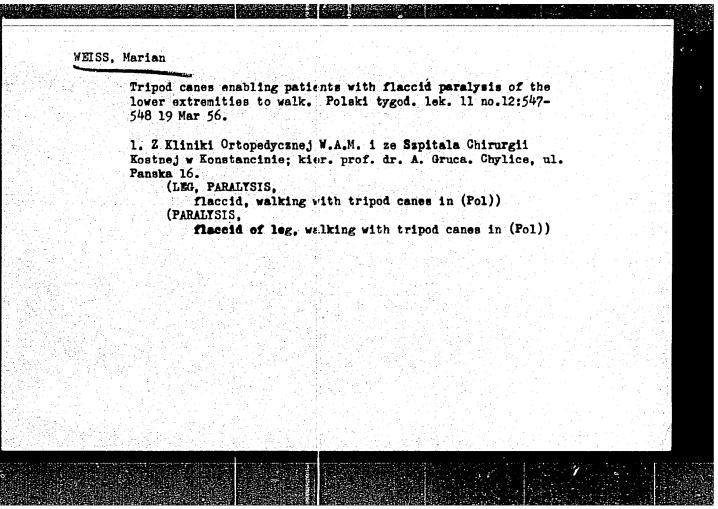












WEISS, Mariant MILKOWSKA, Alicjz; MOZINSKA, Maria

Conservative treatment of Scoliosis, in the light of electromyographic data. Chir. nars. ruchm 22 no.2:197-209 1957.

1. Z Kliniki Ortopedyoznej A. M. w Warszawie i ze Szpitala Chirurgii Kostnej w Konstancinie Kierownik: prof. dr. A. Gruca Z Zakladu Leczniczego Usprawniania A. W. P. w Warszawie Kierownik: z-oa prof., kand, nauk M. Weiss Z Centralnej Poradni Miedzyszkolnej w Warszawie Kierownik: dr K. Sokala Konstancin k/Wurszawy, Szpital Chirurgii Kostnje.

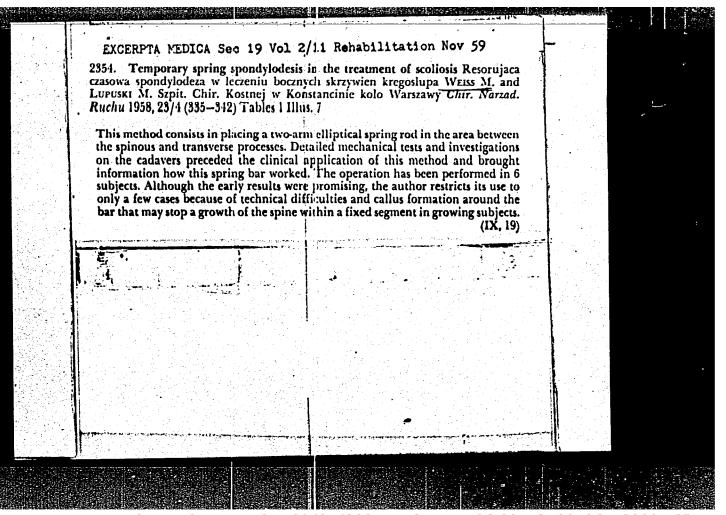
(SCOLIGIS, ther.

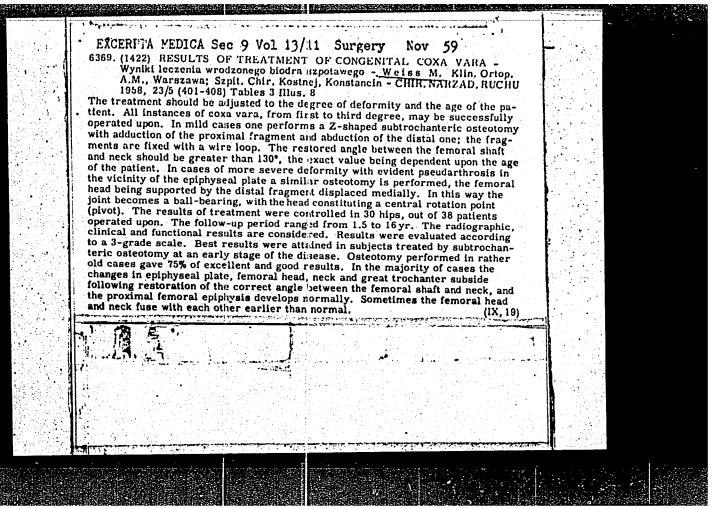
conservative, based on electromyographic data of masc. funct. (Pol.))

(ELECTROMYOGRAPHY, in var. dis.
scoliosis, value of data on masc. funct. in conservative the:. (Pol.))

WEISS, Marian; SLOWIKOWA, Halina Reconstructive surgery for irreparable paralysis due to spinal fractures with cord lesions, Chir. narz. ruchu 22 no.4:441-447 1957. 1. Z Kliniki Ortopedy A. M. w Warszawie i ze Szpitala Chirurgii Kostnej w Konstancinie. Kierownik: prof. dr A. Gruca. Konstancin k/Warszawy, Szpital Chirurgii Kostnej. Wlodzimierz Genszer. (SPINE, fractures gausing spinal cord inj., surg. reconstruction (Pol)) (SPINAL CORD, wds. & inj. gaused by frazt. of spine, surg. reconstruction (Pol))

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1. Z Kliniki Ortopedycznej A. M. w Warszawie Kierownik: prof. dr nauk med. A. Gruca. (COXA VARA, ding. x-ray (Pol))	-WEISS.	Radiological studies on coxa vara. Polski przegl. radiol. 23 no.3: 129-140 May-June 59.
		1. Z Kliniki Ortopedycznej A. M. w Warszawie Kierownik: prof. dr nauk med. A. Gruca. (COXA VARA, ding.

Therapeutic restoration of diseases of the motor organs in old age. Polski tygod.lek.15 no.6:211-215 8 F '60.

1. Ze Szpitala Chirurgii Kostnej w Konstancinie; dyrektor: doc. dr.med. Marian Weiss.

(MOVEMENT DISORDERS in old age)

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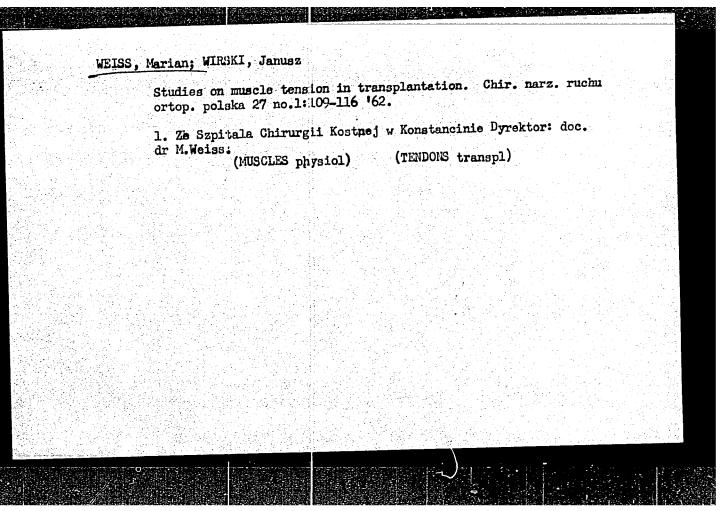
Marian; DERUISKA, Irma; TABJAN, Wlodsimiers Attempted application of cyclography in the analysis of movement disorders. Polski tygod.lek. 15 no.45:1719-1722 7 N *60.	
1. Ze Sspitala Chirurgii Kostnej w Konstancinie; dyrektor: doc. dr med. M.Weiss. (MOWEMENT DISCHIERS diag)	
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MEISS, Marian; WIRSKI, Janusz; SCHWELLER, Elzbieta

Electropathophysiology of stump muscles. Chir. narz. ruchu ortop. polska 26 no.6: '61.

1. Ze Szpitala Chirurgii Kostnej w Konstancinie i Laboratorium Dogwiadzzalnego Ministerstwa Zdrowia i Opieki Spolecznej Dyrektor: doc. dr. M. Weiss.

(AMPUTATION STUMP physiol) (ELECTROMYOGRAPHY)



GRUCA, Adam; MEISS, Marian; BUHEOWA, Elzbieta

The physiological, psychological and social foundations and the problems of rehabilitation. Nauka Polska 10 no.1:55-62 ja-F '62.

1. Czlonek korespondent Polskiej Akademii Nauk, Warszawa (for Gruca).

WEISS, Marian, doc. dr.

Early surgical interventions in the treatment of progressive polyarthritis. Chir. narzad. ruchu ortop. Pol. 28 no.7:683-691 163

1. Z Katedry i Kliniki Rehabili cyjnej Akademi Medycznej w Warszawie, Konstancin (Kierownik: doc. dr. M. Weiss).

WEISS, M.; BIELICKI, B.; GIELZYNSKI, A.

Reconstructive interventions in rheumatoid deformities. Chir. narzad. ruchu ortop. Pol. 28 no.7:693-704 163

1. Z Katedry i Kliniki Rehabilitacji Akademii Medycznej w Warszawie, Konstancin (Kierownik: doc. dr. Marian Weiss).

WEISS, Marien, doc. dr.; HALSKI, Henryk

Results of treatment for scoliosis in adolescents by Cotrel-Gruca's technique. Chir., narzad. ruchu ortop. Pol. 28 no.72 889-895 163

1. Z Kliniki Rehabilitacji Akademii Medycznej w Warszawie, Konstancin (Kierownik: ioc. dr. M. Weiss).

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WEISS, Milan, dr.; FORETIC, Vinko, dr.; WEISGLASS, Henrik, dr.

Scleroma in the Samobor Region. Lijecn. vjesn. 83 no.11:1165-1170 161.

1. Iz Otorinolaringoloskog odjeljenja Vojne bolnice i Bakterioloskog odjela Republickog zavodu za zastitu zdravlja u Zagrebu.

(RHINOSCLEROMA epidemiol)

WEISS, Milan, sanitetski pukovnik, dr.

Role of otorhinolaryngologists in modern warfare. Vojnosanit. pregl. 18 no.9:785-788 S '61.

(OTORHINOLARYNCHOLOGY) (WAR)

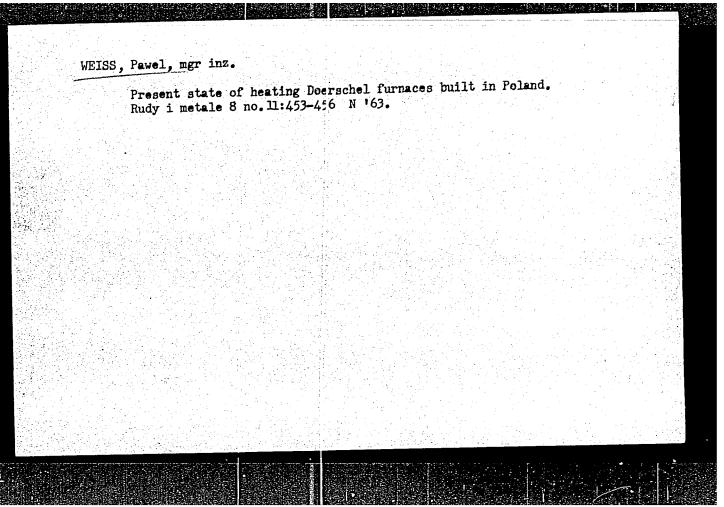
L 10905-65 EW. ACCESSION NR	(d)/EWE(t)/EWP(: AP4049714	u) - JD
	cs, Z. (Enginee	
TITLE: Improv	ed production of	Jarge-size components made of sheet
SOURCE: Stroj	irenska vyroba,	v. 12, no. 8, 1964, 561-565
TOPIC TAGS: 1	marine engineeri	ing sheet
Abstract: Desci	ibed in a new	me hod, developed in the Slovak
educes physics	d labor and im	tin of plates for building ships. Lyout of rectangular components. prives safety at a higher pro-
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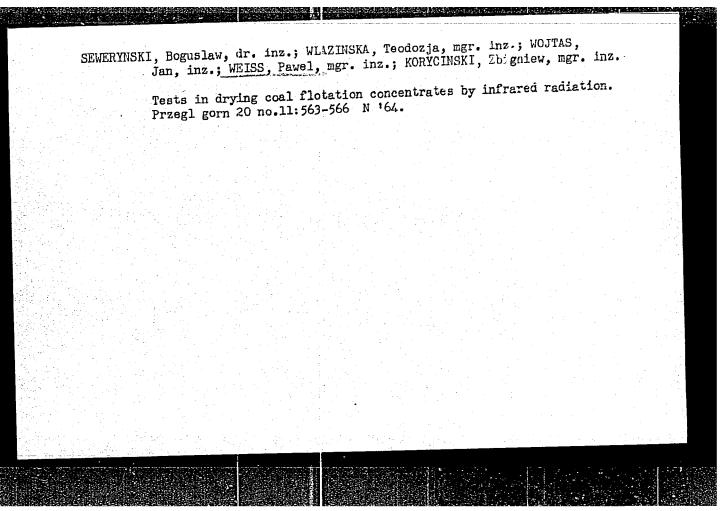
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TAKAUS, Zeltan, inza; VHISS, Provide Improved technology of the production of large plate elements. Stroj vyr 12 no.8:561-569 164.

1. Slovenske locenice Najional Enterprise, zavod Gabora Steinera, Komarno.





METOS'	Przemyslaw, mgr inz.						
	The servicing no.36:6 9 S	of airports	by surface	communication.	Przegl	techn	

WEISS, S.

Thickness of fillst welds in overhead traveling cranes.

P. 218 (PRZEGLAD SPAWALNICTWA) (Warsaw, Poland) Vol. 9, no.9, Sept. 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5. 1958.

RUMANIA

ATHANASESCU I.; COREANU, G.; WEISS, St.; COJOIU, P.

Surgical Clinic I (Clinica I-a Chirurgicala); Director: Professor Dr I. Danicico - (for all)

Timisoara, Timisoara Medicala, No 1, Jan-Jun 63, pp 47-56

"Observations on Primary Gastric Resections with Gastroduodenal Reconstruction in a Single Layer." (Report presented to the Society of Medical Sciences, Surgery Section, on 30 January 1963.)

4

Considerations on hemodynamic changes in the aged in normal and pathological conditions. Med. intern. (Bucur.) 17 no.1:75-80

Ja '65

1. Lucrare effectuata in Clinica I medicala, Institutul de medicina, Timisoara (director: conf. S. Gavrilescu).

STANCTU, L., dr.; NICOLAWVICI, G., dr.; RADIVOEVICI, Al.; Wills, St. dr.

Some indications furnished by arduction disorders for the diagnosis and pre-obsis of coronary disease. Med. intern. (Bucur.) 16 no.11: 1333-1:42 N '64

1. Lucrare efectuata in Cilnica I medicala, 1.M., Timiscara.

GAVRILESCU, S., dr.; FALCOIANU, A., dr.; STOSSEL, S, dr.; WEISS, S. dr.; STREIAN, C., dr.; ERANKA, I., dr.

The carotid sinus hyperreff exivity syndrome. (a clinical and functional study). Med. intern. (Bucur) 17 no.51561-570

My '65.

1. Encrare effectuata in Clinica I medicala (conf. S. Gavrilescu) si Laboratul de electroencefalograma al Clinicii de neurologie (prof. A. Sofletea, Timisoara).

WEISS, Tadeusz, inz.

Failure of air blast circuit breakers for 110 kv. in the power plants of the southern Polish area. Energetyka Pol 14 no.3:94-96 Mr '60.

(EEAI 9:8) 1. Zaklady Energetyczne Okregu Poludniowego (Electric circuit breakers)

(Poland--Electric-power plants)

WEISB T.
SURTHER (In caps); Given Names

Country: Rumenia

Academic Degrees: Engineer

Affiliation: -not given
Source: Bucharest, Stiinta :: Tehnica, No 4, 1961, pp 44.

Data: "The Electrical Installation of the Manet- S 100 Scooter."

CZECHOSLOVAKIA

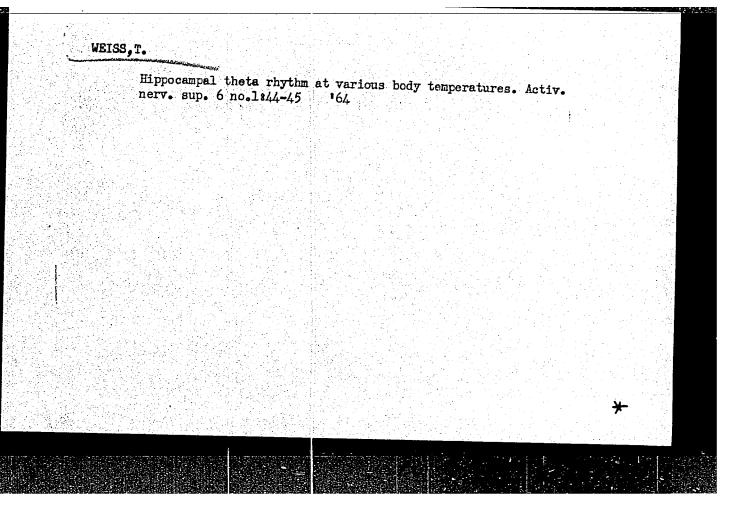
Jozef SLADEK, Aristid MOSANSK! and Tibor WEISZ, Chair of Zoology and Forest Preservation of the Forestry and Lumber Industry College (Katedra zoologie a ochrany lesov Vysokej skoly lesnickej a drevarskej,) Zvolen; Department of Zoology of the Museum of Fastern Slovakia (Zoologicke oddelenie Vychodoslovenskeho muzea), Kosice; and Sarisske Muzeum, Bardejov.

"The Lynx - Lynx lynx (Linne 1758) in Slovakia."

Bratislava, Biologia, Vol 18, No 6, 1963; pp 464-469.

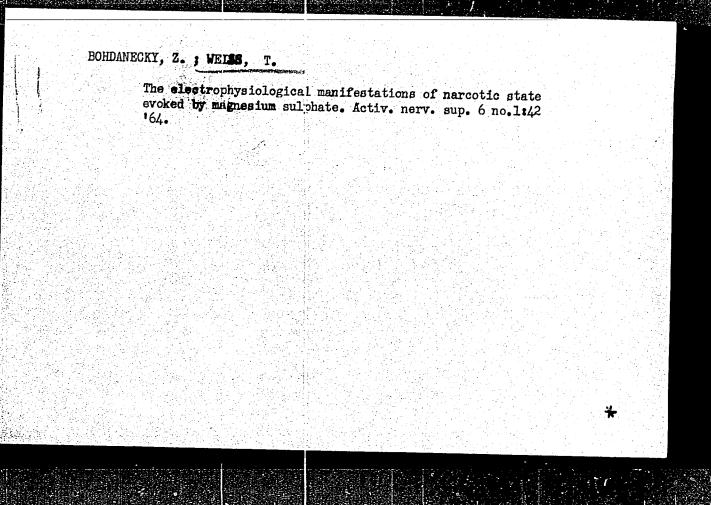
Abstract [German summary modified]: After the war, the European bobcat became much more frequent in the Carpathian mountains but since it is a trophy game, data about its strains is difficult to obtain. From study of 40 skulls collected and some skins examined since 1950, authors conclude that Slovakia harbors mostly the larger Northern variety (L. 1. lynx) and the Caucasian one (L. 1. orientalis) but not the smaller Southern European one (L. 1. pardina); possibly another isolated indigenous subspecies is also present. Table, 2 photographs; 7 Western and 3 Soviet references.

11/1



ROLDAN, E.; WEISS, T.; BOHDANECKY, Z.

Experimental influencing of the duration of sleep cycles with rats. Activ. nerv. sup. 6 no.1:42-43 64

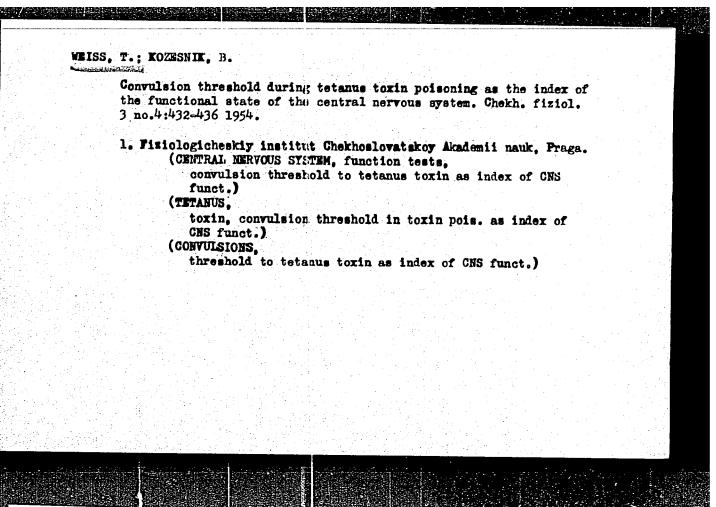


WEISS, T.; KOZESNIK, B.

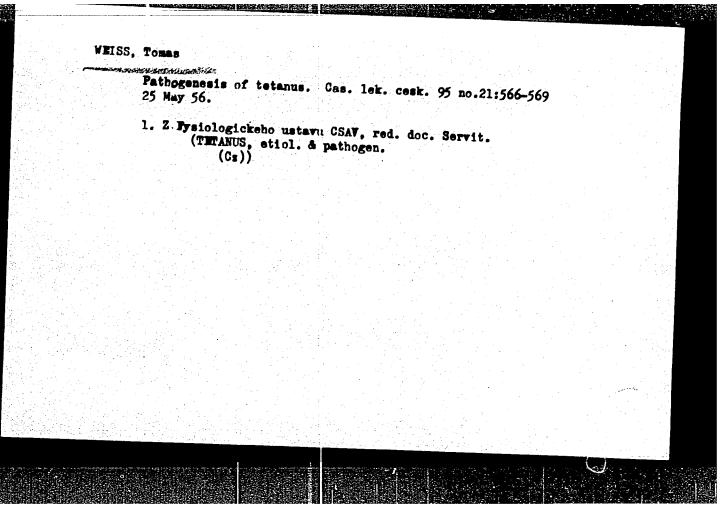
"Effect of Cooling on the Course of Tetanic Intoxication." p. 69,
(CESKOSLOVENSKA FYSIOLOGIE, Vol. 3, No. 1, Jan. 1954, Fraha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 4

No. 5, May 1955, Uncl.



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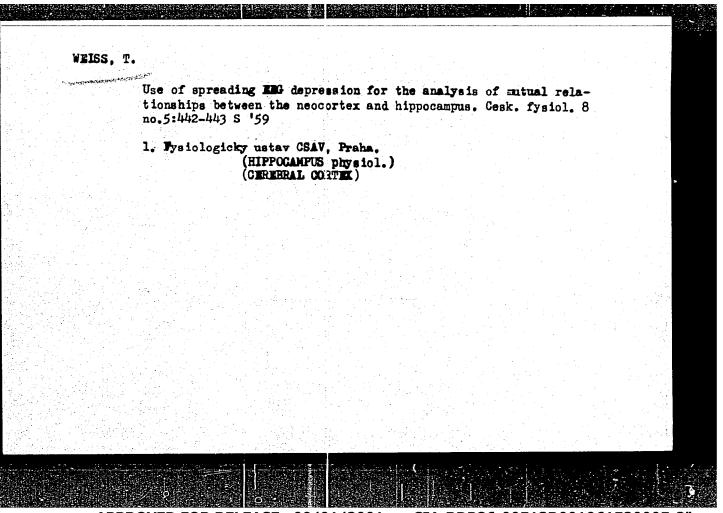


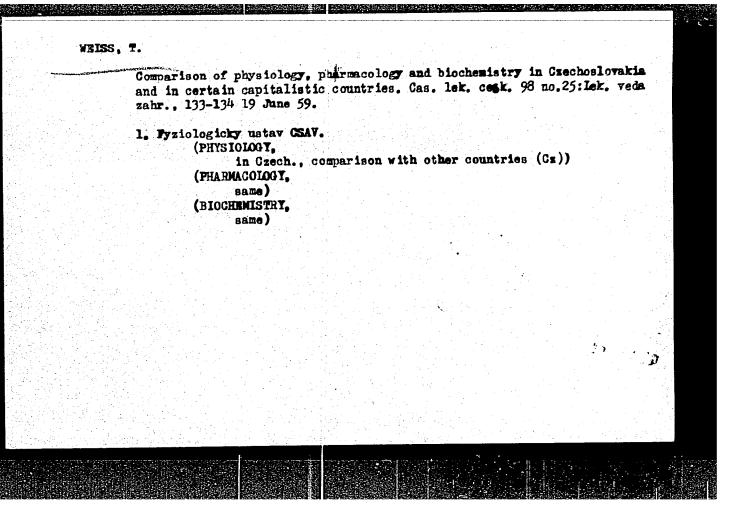
WEISS, T.; BURES, J.

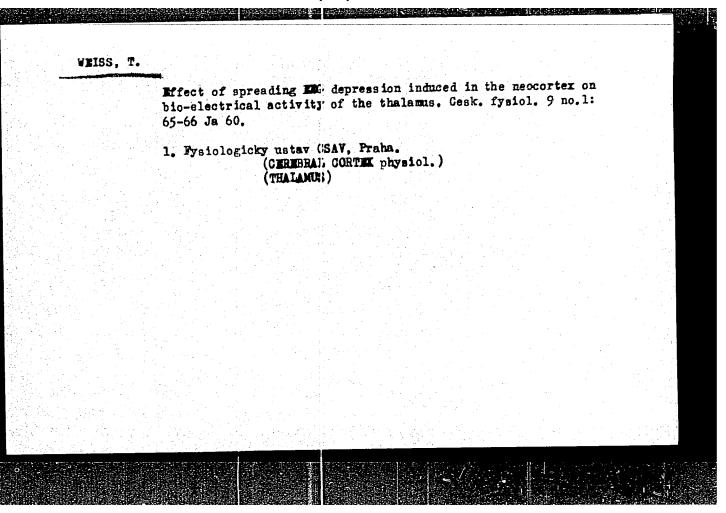
Non-specific projection from the subcortical region to the cerebral cortex in spreading EED depression. Cesk. fysiol. 7 no.3:186-187 May 58.

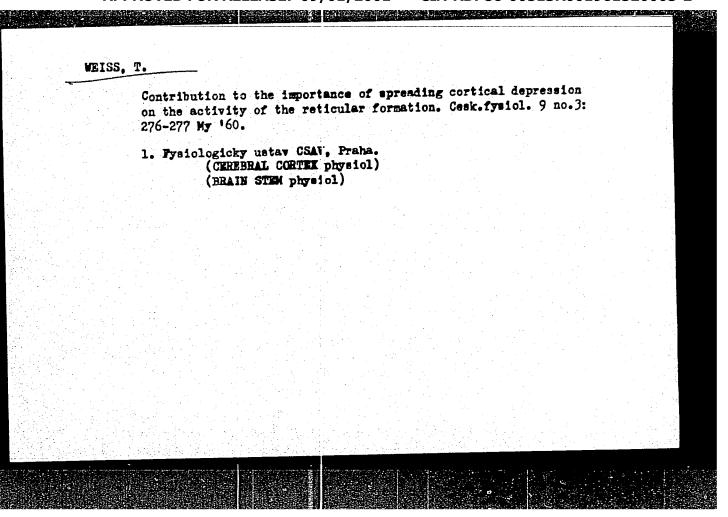
1. Fysiologicky ustav CSAV, Praha.
(CEREBRAL CORTEX, physiol.
spreading depression, non-specific projection from subcortex to cortex (Cz))

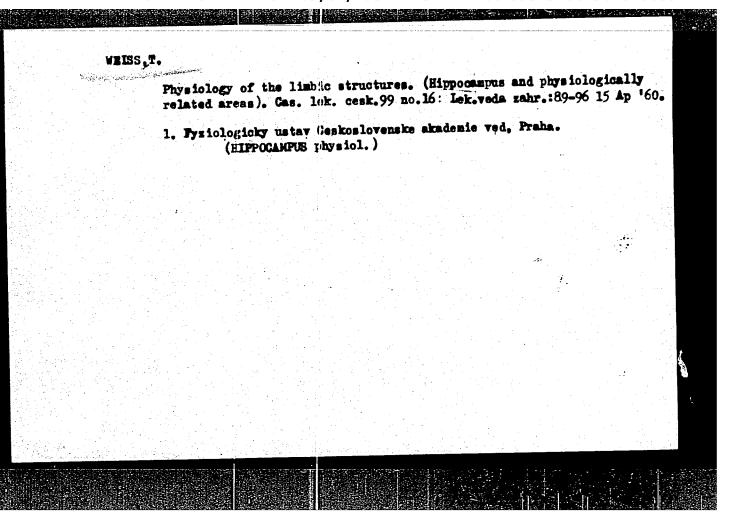
BURES, J.; BURESOVA, O.; WEISS, T. Changes of subcortical electrical activity during spreading cortical EEG depression. Cesk. fysiol. 8 no.3:175-176 Apr. 59. 1. Fysiologicky ustav CSAV, Praha. Predneseno na III. fysiologickych dnech v Brne dne 13. 1. 1959. (CHREBRAL CORTEX, physiol. spreading KEG depression, subcortical electrical changes (Rus))



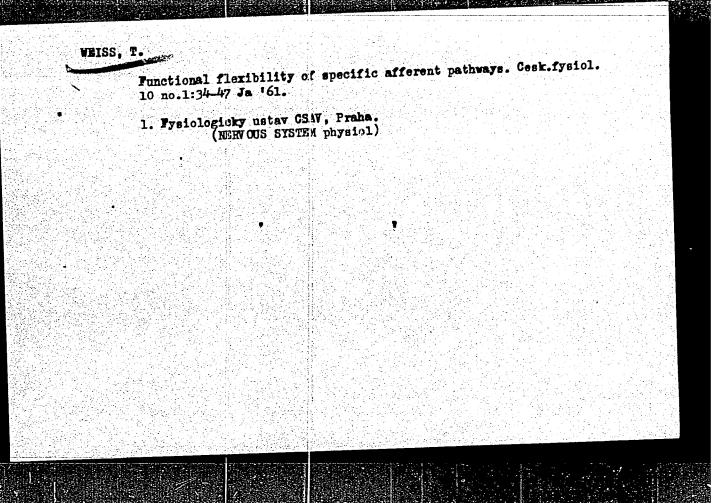


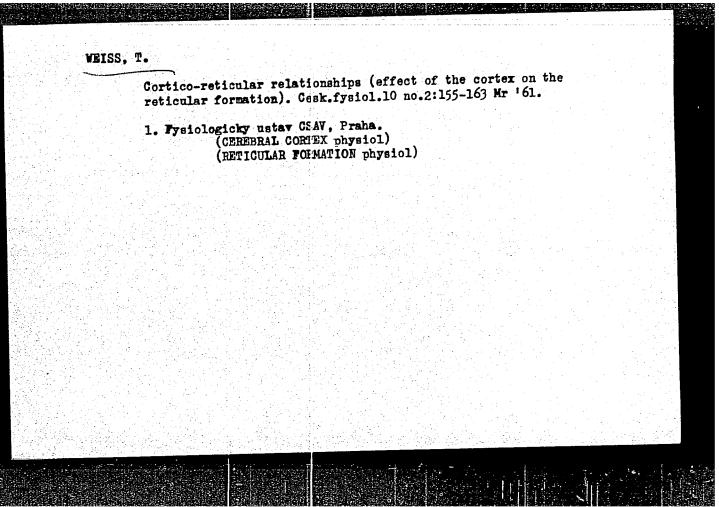


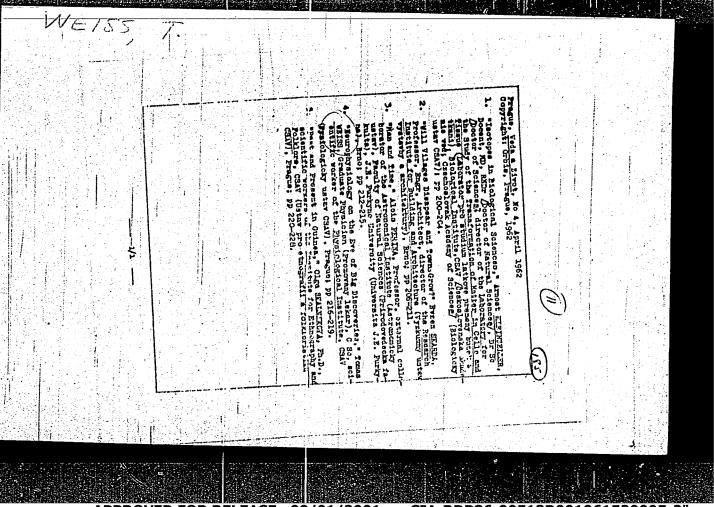




Cortico 176-184	Cortice-thalamo-cortical relationships. Activ. nerv. sup. 3 no.2: 176-184 161.							
1. Fyzi	ologiaky i	istav CS	AV, Praha.					
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RUDIGER, W.; WEISS, T.

The threshold of the synchronization of "arousal," reactions under the influence of electrical stimulation of the reticular formation and hypothalamus during the sourse of spreading cortical depression. Activ. nerv. sup. 4 no.2:142-143 162.

1. Fyziologicky ustav CSIV v Praze.

(CEREBRAL CORTEX physiol) (BRAIN STEM physiol) (HYPOTHALAMUS physiol)

CZECHOSLOVAKIA

T. WEISS, Institute of Physiology (Fysiologicky ustav), CSAV, Prague.

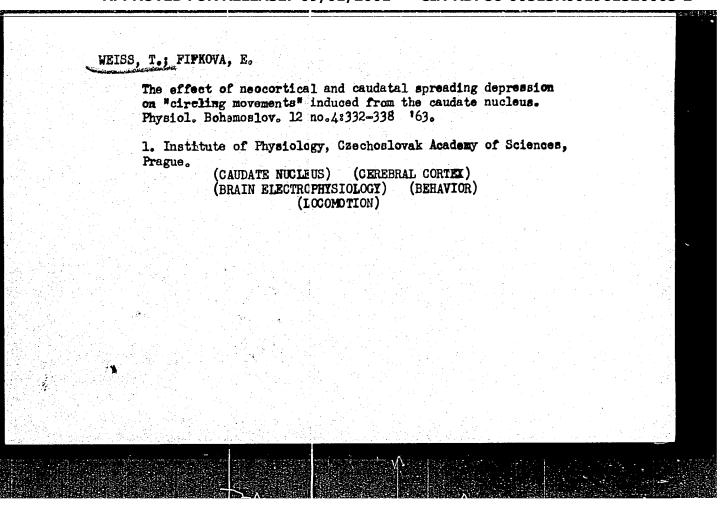
"Rew Data About the Physiology of Dreams."

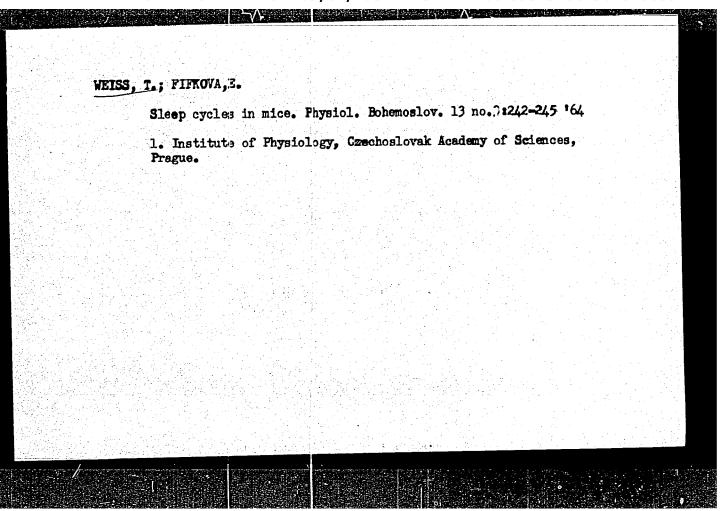
Frague, Ceskoslovenska Tysiologic, Vol 12, No 1, Jan 1963; 77 46-51.

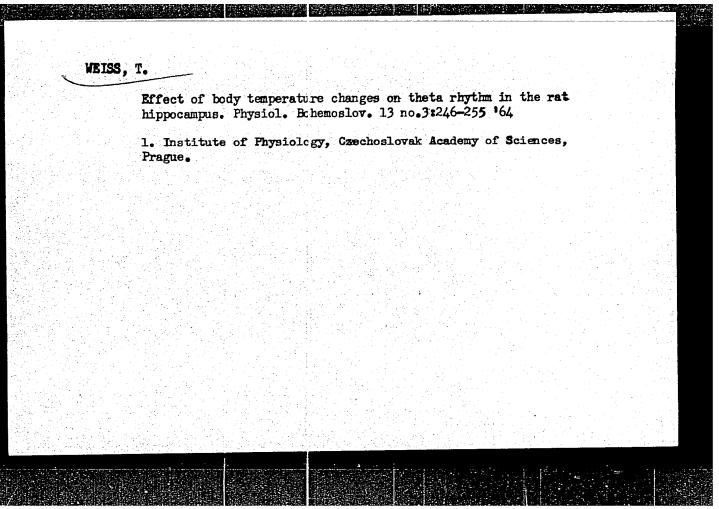
Abstract: Review of work jublished during the last ten years on the electroencerhalographic and micromuscular correlates of dreaming in man and on similar ratterns observed in animals; stereotactic and plantacologic studies. Of 49 references, 4 are Czech, 1 Hungarian, rest Western, mostly English-language. Three additional references to author's own work, one in a Czech, Hexican, US journal have apparently been added in proof.

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CZECHOSLOVAKIA

KREKULE, I.; WEISS, T.R.; Laboratory of Neurocybernetics, Institute of Physiology, Czechoslovak Academy of Sciences, Prague. Orig. version not given J.

"Crosscorrelation and Cross-Spectral Analysis of EEG with Respect to Changes of Vigilance."

Prague, Activitas Nervosa Superior, Vol 8, No 2, Jun 66, pp 193-194

Abstract: Application of crosscorrelation functions and corresponding cross-spectral power density functions for detection of the common part of dependency between two simultaneous EEG recordings are discussed. EEG from electrodes symmetrically placed on the frontal cortices of rats were analyzed. In recordings of synchronized high voltage type (characterizing behavioral sleep) the crosscorrelation and the cross-spectral density are higher between these recordings than in desynchronized (aroused) activity. I Figure, no references. Submitted at the 4th Intradisciplinary Conf. of Exper. and Clin. Study of Higher Nerv. Functions at Mar. Lazne, 12-15 Oct 65. Article is in English.

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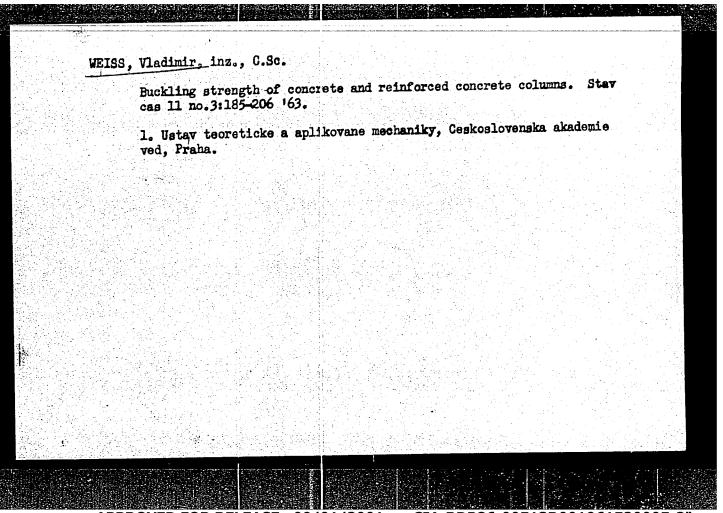
APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961520005-WETSS. T.R.: KADO, R.T.; ADEY, W.R.; Laboratory of Neurocybernetics Institute of Physiology, Czechoslovak Academy of Sciences, Prague; Jorig. version not given 7; Brain Research Institute UCLA, Los Angeles.

"Impedance and DC Potential Shifts During Cortical Spreading Depression."

Prague, Activitas Hervosa Superior, Vol 8, No 2, Jun 66, pp 194-195

Abstract: Experiments were conducted on 17 rats either anesthetized or immobilized (by Gallamine) and artificially respirated during spreading depression (SD). An increase of the impedance occurs during the SD; it is caused by the increase of the equivalent resistance and capacitive reactance. The impedance shift starts later and lasts longer than the negative DC potential accompanying the SD wave. Depolarization and repolarization of the gross cortical DC potential is caused by depolarization and repolarization of the membranes of the neurons due to changes in permeability; this is accompanied by an increase of the impedance of the brain tissue. 1 Figure, no references. Submitted at the 4th Intradisciplinary Conf. of Exper. and Clin. Study of Higher Nerv. Functions at Mar. Lazne, 1/1 12-15 Oct 65. Article is in English.

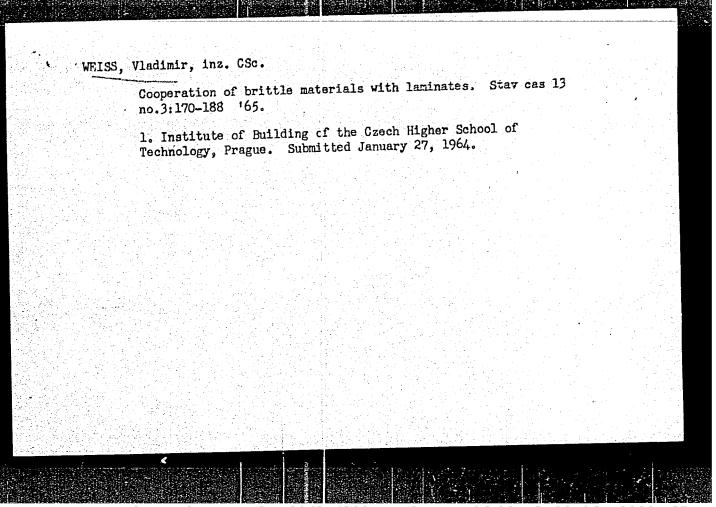
Lumir; WEISS, Vladimir Designing engineering structures from laminated plastics. Vestnik CS			Vestnik CS4V
71 no.4:419-42	1 '62.		
	보인 경기 등록 하면 성으로 있다. 기급이 용기 전체 회장 등의 기교회		
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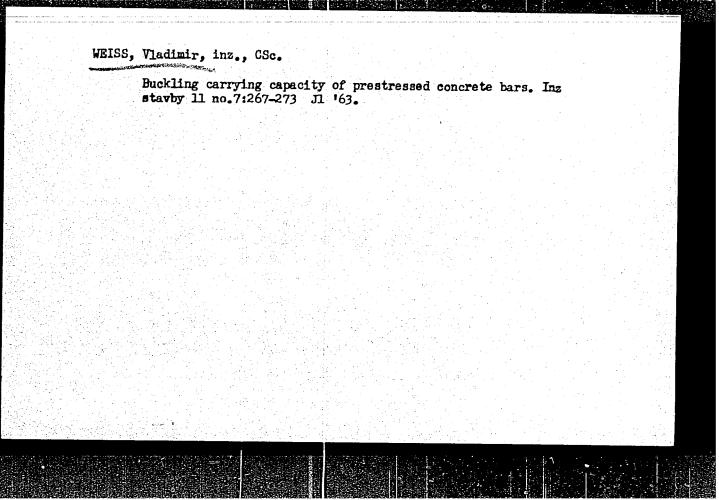


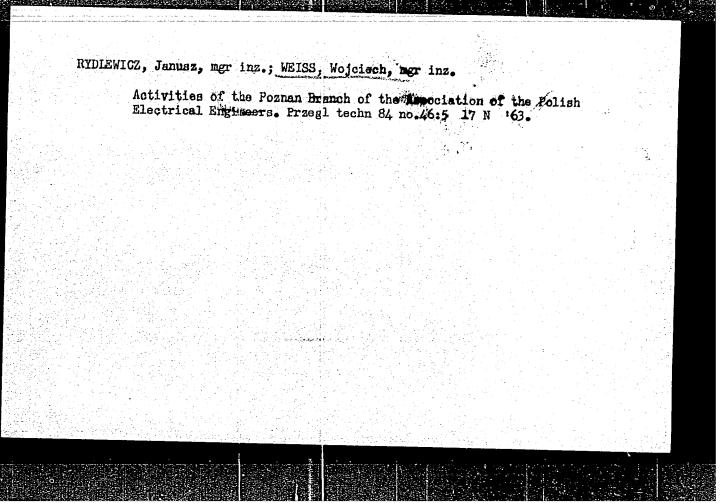
WEISS, Vladimir, inz. C.Sc.; TANNENBAUM, Marcel, inz.; TICHY, M., inz., C.Sc.; VORLICEK, M., inz., C.Sc.

Effect of prestressed reinforcement in the pressed sectional area on the load-capacity variability; discussion. Stav cas 11 no.3: 240-244 163.

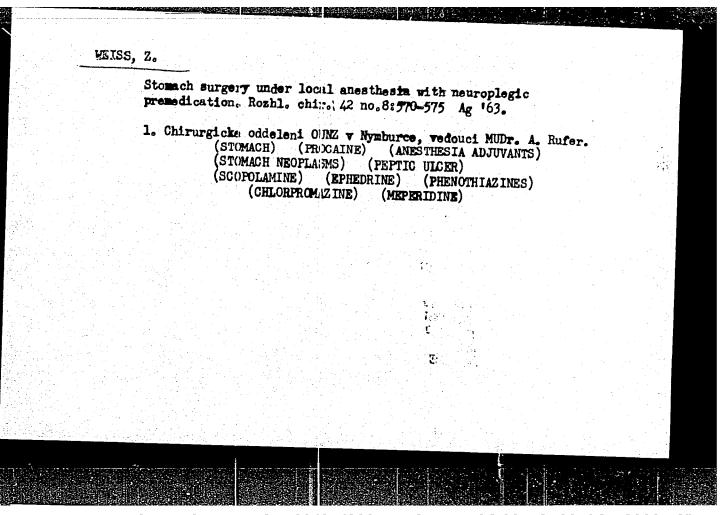
1. Ustav teoreticke a aplikovane mechaniky, Ceskoslovenska akademie ved, Praha (for Weiss).; 2. Ustav stavebniho vyzkumu a stavebni ekonomiky, Bukurest (for l'annenbaum),







Anesthesia in terminal states. Roshl. chir. 41 no.11:721-723 N 162. 1. Chirurgicke oddeleni OINZ Nymburk, prednosta MUDr. A. Rufer. (ANESTHESIA) (EMERGENCIES) (HOSPITALS)



APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961520005-2"

ADAMSKI, L.; ARKUSZEWSKI, J.; BEDNARZ, R.; BRYHN-INGEBRIGTSEN, K.; JOCKOVIC, M.

JOZEFOWICZ, E.T.; JOZEFOWICZ, K.; KACZMAREK, W.; KULIKOWSKA, T.;

MALEWSKI, S.; MIKA, J.; POP-JORDANOV, J.; SMIT, J.; STAMM'LER, R.J.J.;

SZECHTER, A.; TAKAC, S.; WEISS, Z.

Microscopic neutron flux distributions in unit cells of critical assemblies of the NPY-project. Nukleonika 9 no.7/8:575-585 '64

1. Institute of Atomic Energy, Kjeller, Norway (for Bryhn-Ingebrigtsen, Smit, Stamm'ler). 2. Institute of Nuclear Research, Warszawa-Swierk (for Adamski, Arkuszewski, Bednarz, E.T. Jozefowicz, Kaczmarek, K. Jozefowicz, Kulikowska, Malewski, Mika, Szechter). 3. Institute of Nuclear Sciences, "Boris Kidrich," Vicha, Yugoslavia (for Jockovic, Pop-Jordanov, Takac). 4. Or. leave from Institute of Nuclear Research, Warszawa-Swierk (for Weiss).

WEISS, Z.

Determination of the optimal charge of balls and air streem for drum-ball crusherz.

(ENERGETYKA. Vol. 10, no. 6, Nov./Dec. 1956.)

SO: Monthly List of East European Accessions(EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

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P/046/60/005/011/002/018 D249/D303

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AUTHORS:

Rzeszot, Tadeusz, and Weiss, Zbigniew

TITLE:

Neutron spectrum temperature measurements by means of

boron-glass filters

PERIO ICAL: Nukleonika, v. 5, no. 11, 1960, 689 - 703

TEXT: In this paper, measurements on the temperature of neutrons emerging from a horizontal channel of the WWR-S reactor of the Institute of Nuclear Research, Warsaw, are described and interpreted. The basic measurements are of neutron flux (i) whout any filter, (ii) filtered through cadmium, (iii) filtered through boron-glass of known effective thickness, and (iv) filtered through boron-glass and cadmium. By taking a ratio (iii) - (iv)/(i) - (ii), a function a(h) is determined, where h is the boron filter thickness which is dependent of background. Assuming the sensitivity of the neutron detector to be inversely proportional to the neutron velocity, the function a(h) may be written

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APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961520005-2

Neutron spectrum temperature $\sum_{k=0}^{27313} \frac{P/046/60/005/011/002/018}{D249/D303}$ $a(h) = \frac{\int_{-\infty}^{\infty} W(E)_{\chi}(E) \exp\left[-(\Sigma_a(E) + \Sigma_s)h\right] dE}{\int_{-\infty}^{\infty} W(E)_{\chi}(E) dE}, \qquad (5)$ where $\chi(E) = 1 - \exp\left[-\Sigma_{cd}(E) \cdot g\right]. \qquad (6)$ Here the exponential term in Eq. (5) represents the transmission function of the boron-glass, and that in Eq. (6) the same for the cadmium, thickness g. N(E) is the neutron spectrum, Σ_s ; the boron-glass scattering cross-section is assumed to be energy-independent, and $\Sigma_a(E)$, its effective absorption cross-section is equal to $\Sigma_a^0 E^{\frac{1}{2}} E^{-\frac{1}{2}}$ where Σ_a^0 is the absorption cross-section at $E_0 = 0.0255$ eV. Hewriting Eq. (5)

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Neutron spectrum temperature ... P/046/60/005/011/002/018
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$$a'(h) = k \int_{0}^{\infty} N'(E) K(E, h) dE, \qquad (7)$$

where a'(h) = a(h) exp
$$\left[\sum_{\mathbf{g}} \cdot \mathbf{h}\right]$$
, $\mathbf{k}^{-1} = \int_{0}^{\infty} \mathbf{N} \cdot (\mathbf{E}) d\mathbf{E}$ (7')

$$K(E, h) = \exp \left[-\sum_{a}^{o} E_{o}^{1/2} E^{-1/2}\right]$$
 (7")

a Fredholm integral equation of the first type is obtained which must have a unique solution. Assuming a trial function of the form

$$N_{1}(E) = 2\pi^{-1/2} \left[\mu \left(E_{c}/E_{T} \right) \right]^{-1} N_{T} E^{1/2} \exp \left[-E/E_{T} \right] E_{T}^{-3/2} dE$$

$$\int \operatorname{for} E < E_{c}$$

$$N_{2}(E) = 2^{-1} E_{c}^{1/2} E_{E} E^{-8/2} di \mathbb{Z}$$
for $E > E_{c}$

$$\int \operatorname{for} E < E_{c}$$

where

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Neutron spectrum temperature ...

relation between z and s is obtained, a value of s is assumed, and the correction term for the filters

$$Q(h, z(s), s) = \left[\exp(-xBs^{-1}) - \exp(-xz(s)^{-1/s}) \right] x^{-1}$$
where $x = \sum_{a}^{0} sh$ (15)

appearing in Eq. (12) is calculated. A value of x(h) is then found from Eq. (12) and hence s(h) is determined. Since the actual neutron spectrum is quasi-Maxwellian, s(h) depends weakly on hand is averaged by

$$s = h_N^{-1} \cdot \sum_{i=1}^{l=N} s_i \langle h_i - h_{i-1} \rangle; \quad h_0 = 0$$
 (19)

the resulting value being used in a further iteration. 2 or 3 iterations are found to be sufficient and then

$$\mathbf{E}_{\mathbf{T}} = \mathbf{E}_{\mathbf{c}} \cdot \mathbf{s}_{\mathbf{c}}^{-2} \bullet \tag{18}$$

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Neutron spectrum temperature ...

Then, substituting from Eq. (8)

$$a_{In}(x) = \left[c_1(z) 2 \pi^{-1/2} \int_0^z t^{1/2} \exp\left[-(t + xt^{-1/2})\right] dt + C_2(z) \cdot \left[\exp\left(-xs^{-1}B\right) - \exp\left(-xz^{-1/2}\right)\right] x^{-1} \left[N_T(z) + C_2(z) (z^{-1/2} - s^{-1}B)\right]^{-1}$$

$$= \left[12\right]$$
(12)

where

 $C_1(z) = N_T(z) |\mu(z)|^{-1} \quad C_2(z) = \sqrt{z} N_E(z); \quad B = \sqrt{\frac{E_0}{0.381}}$

and there are two unknown temperature-dependent parameters s and z. These may be found by either a least squares process or by a cadmium ratio measurement, when

$$1 - p = [n(0) - n_{cd}(0)] [n(0)]^{-1} = N_T(z) + C_s(z) [z^{-1/2} - s^{-1}B]$$
 (13)

where p is the inverse cadmium ratio. Thus, there are two methods of treating the experimental results. Method 1: From Eq. (13) a

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Neutron spectrum temperature ...

$$\mu(z) = 4\pi^{-1/2} \int_{0}^{1/z} t^2 \exp\left(-t^2\right) dt = \operatorname{erf} \left(-z^2\right) - 2\pi^{-1/2} z^{1/2} \exp\left(-z\right)$$
 (9)

the numbers of thermal and epitherm neutrons NT and NE are

$$\overline{N_T(z)} = \mu(z) |\mu(z) + 4\pi|^{1/2} z^{5/2} \exp(-v)|^{-1}; \ N_E(z) = 1 - N_T(z)$$
 (10)

where $z = E_T/E_c$, since $N_T + N_E = 1$, and $N_1(E_c) = N_2(E_c)$. By approximating the function (E) the effective cadmium cut-off energy E_c was found to be 0.331 eV. The kernel of Eq. (7) may be transformed into a dimensionless form

where
$$K(E,h) = \exp(-x \cdot t^{-1/2})$$

$$x = \sum_{n=0}^{\infty} s \cdot h; \quad t = E \cdot E_T^{-1}; \quad S = E_0^{1/2} E_T^{-1/2}$$

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Meutron spectrum temperature ...

Method 2: The theoretical transmission function of the s and z variables is computed for different filter thicknesses, and the solution is given by the values of s and s for which

$$\delta^2 = \sum_{i=1}^{\mathbf{H}} \left[\mathbf{a}(\mathbf{h}_i) - \mathbf{a}_{th}(\mathbf{h}_i) \right]^2$$
 (20)

is a minimum. In the experiments, the boron-glass contained ll % by weight of B₂O₃ and the effective thicknesses of the filters were determined with the aid of a neutron crystal spectrometer. The neutron beam was collimated by a mraffin-boron channel, and the filters could be inserted between the pieces forming the collimator. A BF₃ proportional counter, shown to have l/v efficiency, was used to detect the neutrons, and the cadmium filter was 0.6 mm thick. Measurements were made over a period of a year in various channels and with various reactor core loadings, and results bet-

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Neutron spectrum temperature . .

ween 346° and 383°K were found. The computation error of the absolute temperature was found to be ± 28°K, due principally to the inaccuracy of the cadmium ratio measurements, but since the sensitivity of the method is ± 4°K this cannot explain the dispersion of the results. Calculations made by Method 2 do not involve the cadmium ratio, and the estimated error is only ± 14°K. The authors feel that the results of both methods of calculation are very close, can be relied upon, and this is in good agreement with measurements made with a crystal spectrometer and by a time of flight method. The authors thank D. O'Connor, D.Sc., and J. Sosnowski, M.Sc. for information on filter constants and help in the crystal spectrometer measurements, J. Topa, M.Sc. and W. Kaczmarek, M.Sc., for help in the measurements, Mrs. E. Weiss for the calculations, and K. Kowalska, M.Sc. for valuable comments on the paper. There are 3 tables, and 13 figures.

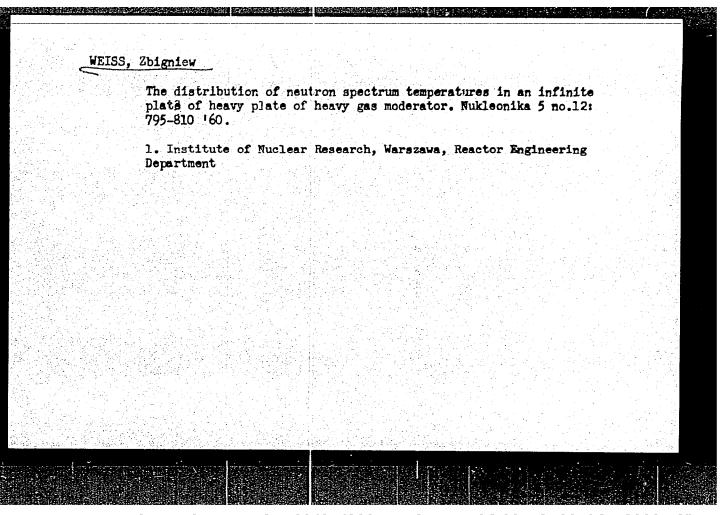
SSOCIATION: Institute of Nuclear Research, Warsaw. Reactor Engi-

neering Department

SUEMITTED:

July 1960

Card 8/8



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P/046/61/006/001/001/005 D226/D301

21.1200

AUTHOR:

Suwalski, W., Weiss, Z.

TITLE:

A method of determining optimal operating parameters

of a reactor oscillator

PERIODICAL:

Nukleonika, v. 6, no. 1, 1961, 1-16

TEXT: This article is the presentation of a simple and adequately accurate method of measuring the reactor oscillator parameters prior to the final design of this complicated installation. The building of the Polish graphite moderator reactor "EWA" has been decided (type WWRS) and the authors consider it necessary to have preliminary measurements made. The proposed method is a static method of determining the expected sensitivity of the oscillator. It is based on the definition of changes in the multiplication factor of the reactor and on the characteristics of local changes in neutron density for the assumed trajectory of the sample movement. Similar characteristics, as applied to the evaluation of resonance integrals have already been used by Klimentov (Ref. 8) Abstracter's

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APPROVED FOR RELEASE: 09/01/2001

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A method of determining ...

note: This reference number is quoted in the text, but not listed in the references, of which only seven are given. The characteristic of change of the multiplication factor is defined as the dependence of the change of the multiplication factor respect to a given level) on the coordinate of the sample on the sample path z. It permits any given equation of motion z = z (t) of the sample to determine the time dependence of $k_{eff}(t) = k_{eff}$ [z(t)]. Using it the time changes in the neutrons local density n(t) = n / z(t) / can be also determined. In practice the path ofthe sample is determined by the measurement channel of the reactor. After determining $\int k_{eff}(t) \int x$ from $\int k_{eff}(z) \int x$ and from the assumed z(t) the author ascertains the amplitudes of harmonics of the overall enrichment signal G as well as the sensitivity of the global signal method for a given value of x = x1. Simultaneously with the above measurements, measurement can be made of the neutron density in the vicinity of the channel in which the sample is moving. For one idealized reactor the sensitivity of the global signal method would be constant for the whole channel.

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A method of determining...

purity of moderators, and especially that of graphite, the phenomenon of neutron absorption is masked to a great extent by the action of moderator itself, even assuming that there is diffraction and the sensitivity of the global signal method would be negligible. The sensitivity of the local signal method l is being determined by the static method from $1 = \frac{1}{x} \frac{L - I_0}{L_0}$ (12) where L - amplitude of

local signal with impurities; Io - same for sample without impurities; x - relative impurity content of the characteristics of local changes of the neutron density. These changes are due also to the combined effect of three basic effects Absorption of neutrons in the sample which decreases the neutron density, the diffraction of the thermal neutron stream and the moderation of epithermal neutrons which increase the local density of thermal neutrons. From the three above factors that of moderation has the preponderant role in reactors, in which the neutron spectrum has a large epithermal constituent. Since in the active lattice the local signal cannot be used it must be based on measurements performed outside the active lattice. This measurement has the advantage that at a distance from the reactor Card 3/5

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A method of determining...

core the ratio of thermal to epithermal stream is large so that the measurement is in effect that of thermal absorption with a small influence only of resonance absorption. The diffraction can also be nearly eliminated and finally, the practically independent of power level-oscillator operation does not hinder other experiments.
The third method of the resultant signal R, in which an ionization chamber located at any point measures in principle only this resultant signal, can also be used for determining absorption in such moderators as graphite or heavy water. The sensitivity of this method depends on angle Ø and given by (14)

 $\vartheta = \frac{d\Theta}{dx}\Big|_{x \to 0} - (g+1) \frac{\sin \varphi}{1 + a^2 - 2\cos \varphi}$

is proportional to the sensitivity of both previously discussed methods. This sensitivity depends on parameters a and ϕ , a being the ratio of amplitudes of local and global signals for pure materthe ratio of amplitudes of footal and global signal ials respectively and 0 - the phase delay angle of the global signal ials respectively and 0 - the phase delay angle of (g + 1) due to the change in the multiplication factor. Graphs of (g + 1)

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